Amendments to the Claims

Please cancel Claims 9-16. Please add new Claims 21-22. The Claim Listing below will replace all prior versions of the claims in the application:

Claim Listing

1. (Original) A composition of matter comprising a solid support and a self-assembled monolayer of linear peptides bound in a pre-determined pattern to said solid support by a bond between the solid support and a terminal amino acid of the linear peptides, wherein said linear peptides comprise:
    a) a presenting group which binds specifically to a cell surface protein; and
    b) a central linker between the presenting group and the terminal amino acid.

2. (Original) The composition of matter according to Claim 1 wherein said solid support is a metal.

3. (Original) The composition of matter according to Claim 2 wherein said metal is selected from the group consisting of gold, copper, nickel, zinc and silver.

4. (Original) The composition of matter according to Claim 1 wherein said solid support is selected from the group consisting of silica and glass.

5. (Original) The composition of matter according to Claim 1 wherein the terminal amino acid is selected from the group consisting of serine, cysteine, tyrosine, asparagine, glutamine, aspartic acid, glutamic acid, lysine, histidine and arginine.

6. (Original) The composition of matter according to Claim 5 wherein said terminal amino acid is selected from the group consisting of serine, aspartic acid, glutamic acid and cysteine.

7. (Original) The composition of matter according to Claim 6 wherein said central linker comprises between 2 to 50 amino acids.

8. (Original) The composition of matter according to Claim 7 wherein said central linker is selected from the group consisting of a oligoglycine and oligoalanine.

9-16. (Canceled)

17. (Withdrawn) A method for manufacturing a composition of matter comprising a solid support and a self-assembled monolayer of linear peptides bound in a pre-determined pattern to said solid support, said method comprising the steps:

(a) contacting an elastomeric stamp characterized by a relief of said predetermined pattern with a solution containing a compound which can react with said solid support;

(b) contacting said stamp with a surface of said solid support under conditions suitable for the reaction between said compound and said solid surface, wherein said compound reacts with said solid support at points of contact between said stamp and said solid support, corresponding to the relief of said predetermined pattern;

(c) removing said stamp; and

(d) contacting said solid support with a solution containing said linear peptides under conditions suitable for the reaction of said peptide and said solid support.

18. (Withdrawn) A method for culturing cells comprising the steps of:

(a) contacting the composition of matter of Claim 1 with cells having the cell surface protein to which the presenting group specifically binds under conditions suitable for said cells to bind to the presenting group; and

(b) maintaining said cells under conditions suitable for growth.

19. (Withdrawn) A method for culturing cells comprising the steps of:

(a) contacting the composition of matter of Claim 9 with cells under conditions suitable for said cells to bind to the peptides; and

(b) maintaining said cells under conditions suitable for growth.

20. (Withdrawn) A method for assaying the presence of a target in a sample comprising the steps of:

(a) contacting said sample with the composition of matter of Claim 9 said linear peptides possess an affinity for said target; and

(b) detecting the presence of said target on said composition of matter.

21. (New) The composition of matter according to Claim 1 wherein the cell surface protein is on the surface of a mammalian cell.

22. (New) The composition of matter according to Claim 21 wherein the mammalian cell is selected from the group consisting of a tumor cell, a normal somatic cell and a stem cell.